

ABSTRACT

A crystalline titanosilicate catalyst which is usable as a catalyst in the oxidation reaction of a 5 compound having a carbon-carbon double bond and at least one other functional group, a process for producing the catalyst, and a process for producing an oxidized compound by an oxidation reaction using the catalyst. It has been found that a crystalline titanosilicate 10 having a structural code of MWW effectively functions as a catalyst in an oxidation reaction of a compound having a carbon-carbon double bond and at least one other functional group wherein the carbon-carbon double bond of the compound is oxidized by using a peroxide as an 15 oxidizing agent, thereby to highly selectively provide an intended oxidized compound.